

WHAT IS CLAIMED IS:

1. A method of automatically connecting a link with a communication terminal equipped with a Bluetooth wireless device acting as a slave by Bluetooth wireless communication in a communication terminal equipped with a Bluetooth wireless device acting as a master, comprising the steps of:
 - transmitting a link connection request message to the slave upon request of a link connection with the slave;
 - 10 determining whether the link is connected and transmitting the link connection request message as many times as a predetermined number of automatic link connection attempts until the link is connected if the link is not connected.
- 15 2. The method of claim 1, further comprising the step of sounding an alarm indicating a link connection failure and displaying a link connection failure message if the link is not connected after the link connection request message is transmitted more times than the automatic link connection attempt number.
- 20 3. The method of claim 1, further comprising the steps of displaying a message requesting input of the automatic link connection attempt number upon receipt of key input selecting an automatic link connection menu, setting the automatic link connection attempt number corresponding to a received digit key, and setting an automatic link connection mode.
- 25 4. A method of automatically connecting a link between a communication terminal equipped with a Bluetooth wireless device acting as a master and a communication terminal equipped with a Bluetooth wireless device

acting as a slave, comprising the steps of:

(a) transmitting a message indicating a predetermined automatic link connection attempt number to the slave by the master;

(b) receiving the message indicating the automatic link connection attempt number from the master and setting the automatic link connection attempt number in the slave by the slave; and

(c) attempting a link connection to the master by the slave and, if the link connection fails, attempting the link connection as many times as the automatic link connection attempt number by the slave.

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5. The method of claim 4, wherein the master transmits the message indicating the number of automatic link connection attempts every time the master connects a link with the slave in the step (a).

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6. A method of automatically connecting a link between a communication terminal equipped with a Bluetooth wireless device acting as a master and a communication terminal equipped with a Bluetooth wireless device acting as a slave, comprising the steps of:

transmitting a message indicating a predetermined automatic link connection attempt number to the slave repeatedly by the master until the master receives a response message from the slave, upon initial registration of the ID of the slave in the master;

transmitting the response message to the master by the slave upon receipt of the message indicating the automatic link connection attempt number and setting the automatic link connection attempt number in the slave by the slave; and

attempting a link connection to the master by the slave and, if the link connection fails, attempting the link connection as many times as the automatic

link connection attempt number by the slave.

7. The method of claim 6, further comprising the step of transmitting a message indicating a changed automatic link connection attempt
5 number to the slave by the master until the master receives a response message for the message indicating the change from the slave, if the automatic link connection attempt number is changed.

8. The method of claim 6, wherein the communication terminal
10 acting as a slave applies the automatic link connection attempt number set by the master as long as the communication terminal acts as the slave.